

## 12. HEMIPTERA.

### 3. Gerridae, Corixidae and Notonectidae

by

G. W. KIRKALDY.

The Ethiopian Hemiptera of the three families here discussed are very little known, STÅL describing only thirteen species in all, in his »Hemiptera africana» (1865), while the present total is less than fifty.

No species have, I believe, been hitherto recorded from Kilimandjaro, the nearest locality being Zanzibar, from which place, with Quilimane — further south, in Portuguese East Africa — GERSTÄCKER recorded a few species in 1892. (Jahrb. Hamburg. Wiss. Anst. IX (2). 45—58).

According to our present knowledge, the Ethiopian continental Hemiptera are very uninteresting from a distributional point of view, the same species often extending all over the continent, and, in the case of the aquatic forms, into Madagascar and the neighbouring islands as well.

Dr. SJÖSTEDT has collected 292 specimens in all, of which 231 are adults and 61 nymphs;<sup>1</sup> these are referable to 21 species & 13 genera. One genus and 2 species are described as new.

#### Gerridae.

*Limnogonns hypolencus* (GERST.).

*Gerris hypoleuca* GERST. 1892 op. cit. 55. = *Tenagogonus tristriatus* DE CARLINI 1895, Ann. Mus. Genova (2) XV. 1 H. (nov. syn.!) — Ten specimens from *Usambara* Mombo, and Tanga (June). DE CARLINI must have identified GERSTÄCKER's species from the description, as his type is an almost exact replica of GERSTÄCKER's.

*Limnogonns aegyptiacus* (PUTON).

*Gerris aegyptiaca* PUTON 1890 Rev. Ent. IX. 228. = *Tenagogonus bottegoi* DE CARLINI 1895 l. c. (nov. syn.!). Ten examples (7 macropterous and adults and 3 nymphs) from *Kilimandjaro* (Sep. 22) and Tanga. His little species is very like *L. ni-*

<sup>1</sup> The collection contains 630 specimens: in consequence of the long, rather uncertain, passage to Honolulu only 292 specimens were sent: the others are duplicates (SJÖSTEDT).

*tidus* (MAYR), but the hind lobe of the pronotum is less elongate, and the spiracles, if darkened, are much more minutely and obscurely so. I have seen only females of *L. aegyptiacus*.

***Gerris swakopensis* STÅL.**

1858 Ö. V. A. F. XV. 318. Seven (macropterous and apterous) examples from *Kilimandjaro* (Jul. 12 and Sep. 22) in brine pools, Natron lakes.

***Tenagobius albobittatus* STÅL.**

1855 Ö. V. A. F. XII. 45. Sixteen examples (three apterous ♀ adults and 13 nymphs) from *Kilimandjaro*, Kibonoto, (Jan. 1), river Sanya. STÅL omitted this species from the »Hemiptera africana».

***Metrocoris distantis* KIRKALDY.**

1904 Entom. XXXVII. 62. Nineteen macropterous and apterous adults and 5 nymphs from *Kilimandjaro*; Kibonoto low lands and steppe (Jan. and Aug.); *Usambara*, Mombo (June).

The basal margin of the pronotum in the apterous form is pale (interrupted in the middle), not black, as misstated in the description. I will describe the macropterous form in my forthcoming Revision of the Gerridae.

***Rhagovelia nigricans* (BURM.).**

KIRKALDY 1902 Entom. XXXV. 63. — Six examples from *Usambara* (macropterous and apterous).

***Tenagovelia* gen. nov.**

Has the appearance of a large, elongata *Microvelia*, from which it differs by the fore tarsi being bisegmentate, the others trisegmentate, the basal segment annuliform in each. It differs from *Velia* and *Rhagovelia* by the longer head and the tarsal segmentation, and differs from all three by the fore trochanter having a short median spine beneath, and the fore femur having an antemedian spine beneath. The antennal tubercles are strong, and the abdomen beneath is strongly sulcate.

***Tenagovelia sjöstedti* sp. nov.**

*Apterous form*: dark greyish fuscous, with sparse silver pubescence. A rather obscure transverse fawn-coloured submarginal line on the pronotum anteriorly. Labium partly, coxae, trochanters, basal two-thirds of fore femora and extreme base of the other femora, pale orange-brown. Antennae 18. 11. 11. 12.

Length  $5\frac{1}{2}$  mill., max. width about  $1\frac{1}{2}$  mill.

*Usambara* and Tanga, 7 examples.

**? *Mesovelia proxima* SCHOUT.**

1906 A. S. E. Belg. XLIX. 388. — *Kilimandjaro* (Sept 12) in brine pools. I cannot separate the single (macropterous) example from my *M. orientalis* (which MR. DISTANT absurdly synonymizes with *M. mulsanti*), but it is not in very good condition, and this is a very difficult genus.

**Hydrometra albolineolata** REUTER.

1882 Oefv. Finsk. Förh. XXV. 38. — Twenty examples from *Usambara* and Tanga.

**Corixidae.****Micronecta scutellaris** (STÅL).

*Sigara id.* STÅL 1858 Ö. V. A. F. XV. 319. — One example from *Kilimandjaro* (Sept. 22.), in a brine pool.

**Micronecta sulcata** (SIGNORET).

*Sigara id.* STÅL 1865 Hem. afr. III. 193. — Twenty examples from *Kilimandjaro*, which agree exactly with STÅL's very laconic description.

**Arctocoris** sp. n.?

One immature adult from *Kilimandjaro*.

**Arctocoris kilimandjaronis** sp. nov.

Allied to *A. lateralis* LEACH. Pale ivory white, pronotum and tegmina pale cinereous, the former with about 11 or 12 thin blackish-brown lines, the latter with irregular, nonserial, contortuplicated, abbreviated, dark brown markings. Corio-membranal suture narrowly pale. Vertex a little swollen, rounded anterior, basal half keeled medially, angularly produced behind; 2 rows of punctures on each side of the middle. Pronotum long; keel very short, reaching to 4<sup>th</sup> dark line. Pronotum and clavus slightly rostrate; corium hairy, not rostrate, punctured. Mesoxypus acute. Middle tibia shorter than tarsus and claw together, claw rather longer than tarsus.

♂ Facial depression extending from eye to eye, rather deep, reaching back nearly as far as base of frons. Fore tibia ventrally keeled; pala elongately cultrate, curved in profile, with about 30 pegs, which lengthen towards the apex of the pala. Strigil very minute. Length. 5<sup>3</sup>/<sub>4</sub> mill. — *Kilimandjaro* (brine pools and Kibonoto low lands, July 9–12).

**Arctocoris sjöstedti** sp. nov.

Allied to *A. pectoralis* (FIEBER). Blackish brown; head and underside pale ochreous; eyes greyish. Pronotum with about 8 very thin, percurrent, yellowish lines. Tegmina with very thin, yellowish, contortuplicate, abbreviated, nonserial lines, which are straighter on the basal part of the clavus; membrano-corial suture very narrowly immaculate, fuscous, a darker spot on the exterior margin. Head very slightly produced in the middle basally, vertex rounded in line with the eyes and with 4 rows of superficial punctures. Mesoxypus acute, but not acuminate. Pronotum and clavus rostrate, corium punctured. Middle tibia as long as the claws, one third longer than the tarsus.

♂ Frontal depression extending between the eyes and reaching about halfway to their base (as seen ventrally). Fore tibia keeled ventrally; pala eultrate, dorsally arched; the space between the pegs and the dorsal line (except extreme base), and corresponding space on dorsal side, blackish-brown; pegs castaneous, of these there are about two dozen, the apical ones longer. Strigil elongate oval, 4 or 5 rows.

Length 6 $\frac{1}{4}$  mill. A number of examples from *Kilimandjaro*, Kibonoto low lands (July).

*A. pectoralis* has partly dark palae in the male, but the mesosternum is described as black medially, the shape of the pala, as figured by FIEBER, is very different.

#### *Arctocoris* sp?

A number of examples (all females, unfortunately) of a species a little larger than *A. Sjöstedti*, paler, the lines a little more regular, and the middle tibia proportionally longer. From *Kilimandjaro* (Sep. 22) and *Usambara*.

### Notonectidae.

#### *Enithares blandula* (SIGNORET).

KIRKALDY 1904, Wien. E. Z. XXIII. 109. — Ten examples from *Kilimandjaro* (brine pools and Kibonoto low lands, Jan. 1 and Sept. 22).

#### *Enithares sobria* (STÅL).

KIRKALDY 1904 op. cit. 106. — Four examples from *Kilimandjaro* (Kibonoto low lands, March 1; Sept. 22).

#### *Anisops nivea* (FABRICIUS).

KIRKALDY 1904 op. cit. 118. *Kilimandjaro*: Kibonoto, steppe, Sep. 28, and *Usambara*: Tanga. Two adults and two nymphs.

#### *Anisops sardea* H. S.

KIRKALDY 1904 op. cit. 114. *Kilimandjaro* (brine pools, July 4), and Tanga (June 4). Twelve examples.

#### *Anisops vitrea* SIGNORET.

KIRKALDY 1904 op. cit. 119. Seven examples from *Kilimandjaro* (Sep. 22).

#### *Anisops* sp?

Thirty five nymphs, possibly of *A. sardea*.

#### *Plea* sp?

One example, not in very good condition, from *Kilimandjaro*, Kibonoto low lands, Sept. 21.

#### *Plea pullula* (STÅL).

STÅL 1865 Hem. afr. III. 192. — Two examples from *Kilimandjaro*, (Kibonoto low lands, Sept. 21).